INFORMATION REPORT INFORMATION

CENTRAL INTELLIGENCE AGENCY

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ATTACHMENT
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Turbine-blade material: For each delivered bar there are 6 specia
for tensile strength tests at 20 degrees, and 3 specimens each fo
creep tests at 800 degrees, as well as one disk about 15-mm thick
for microscopic examination.
Disk material: 6 tensile-test specimens (3 for 6'B and 3 for
$6_{0.2/100}$ at 650 degrees, later 700 degrees), 3 notched-bar
impact-test specimens (longitudinal and transverse) in accordance
with proscribed heat-treatment. Structural examinations.
"First desired values, for example, for $\Im M$ 388 a creep strength at
800 degrees 6°_{B} $100^{h} \ge 12 \text{ kg/mm}^2$. Several months later came the
3-31
delivery of the first bars, which did not show 12kg/mm^2 at 800 degree. The required thermal stability of $\mathcal{E}_B / 800 \cong 45 \text{ kg/mm}^2$ was

SEGRET

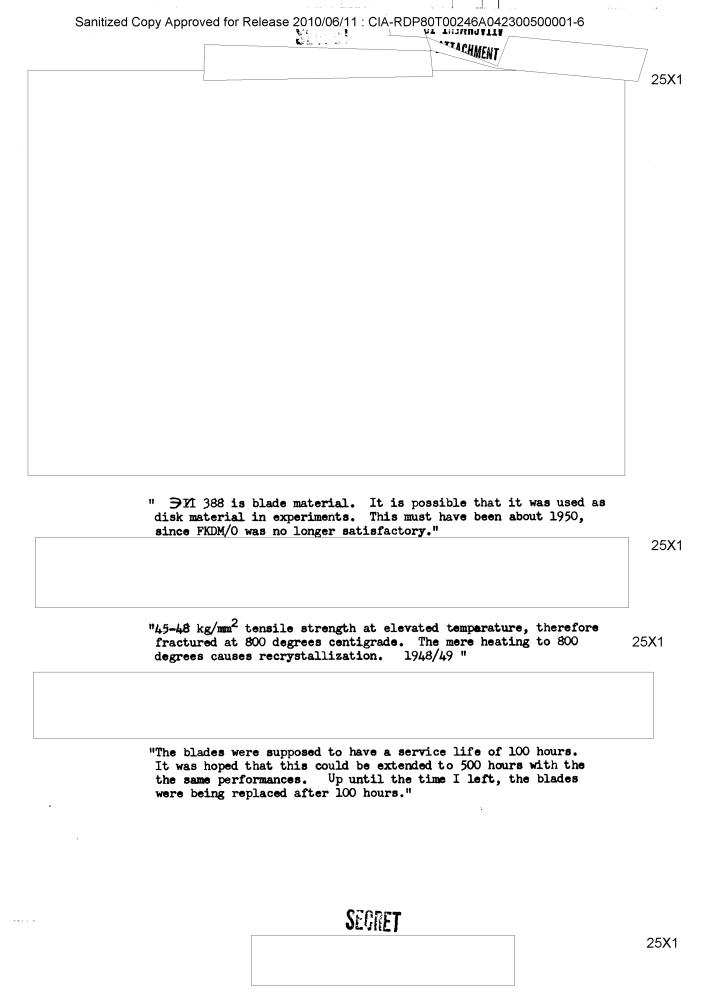
25X1

"The gentlemen from VIAm made a good impression, and those from Plant No 2 (Polyakov, Popov) made an extremely poor impression. This is true of Popov, even though he received the Stalin Prize for the introduction of the continuous-casting method for light metals."	
"The purpose was to get their own engine, since the Rolls-Royce 'Nenm' incurred considerable difficulty."	
(VIAM). Learned from conversations that there is a Vickers creep-test installation there, as well as a 'Losenhausen' (2 tons)."	
	2
"Experiments on the further development of the BMW 003 C were discontinued because of the complicated manufacture."	
SECRET	

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	Test data were in the possession of the chief metallurgist and were only occasionally, in the case of discrepancies, accessible	
	"Vatallium was known as an alloy, but was not used for turbine bl	adea
	vavarrium was known as an arroy, but was not used for turbine br	.augs.
	at the beginning, since the forging of large disks was difficult, and cracks were often discovered (up to 50% rejects)."	
	difficult, and cracks were often discovered (up to 30% rejects)."	
	Experimental melts (for comparison with VIAM regarding	
	creep data) much earlier."	
, rice	"Creep strength was not tested, only long-time creep strength	
	$\mathcal{S}_{\mathrm{B/100^{h}}}$ 800° and later $\mathcal{S}_{\mathrm{B/100^{h}}}$ 850°. The permanent elongation	
	was not supposed to exceed about 1%. Bending strength was not tested. Time yield limit for disk material 6 0.2/100 at 650° and 700°."	
	650° and 700°."	
	SEGRET	

"In VIAM carried	experiments on the proout.	eduction of titanium	were being
"The Sovi	ets mentioned that wo	rk of this type was	going on in VIAM.
			down and mt =1=3
"Experime	ents on turbine blades process, however, n	ot ultimately introd	ning and nickel
"Experime plating;	process, however, n	with aliting, chronout ultimately introd	ning and nickel

	OFAUE	CIA-RDP80100246A04230050000	
		atIIA	
m	nodel blades were exhib	pited around 1952."	



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		25 X 1
"Some wheels ran through several journal rbds showed cracks."	exchanges, until the 1949/1950	
		25X1



25X1

25X1

